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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/895,449	•	06/29/2001	Jacob Oshins	40062.92USU1	9003
27488	7590	02/10/2004		EXAMI	INER
MERCHA	NT & GC	ULD	PARDO, THUY N		
P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903				ART UNIT	PAPER NUMBER
*	· · · · · · · · · · · · · · · ·			2175	
				DATE MAILED: 02/10/2004	I

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	09/895,449	OSHINS ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Thuy Pardo	2175				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicated if the period for reply specified above is less than thirty (30) day if NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC y statute, cause the application to become a	a reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	n 29 Jun e 2001.					
	This action is non-final.	·				
3)☐ Since this application is in condition for a		tters, prosecution as to the merits is				
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		,				
4) ⊠ Claim(s) <u>1-29</u> is/are pending in the applie 4a) Of the above claim(s) is/are wi 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-29</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	ithdrawn from consideration.					
Application Papers						
9) The specification is objected to by the Ex	aminer.					
10)⊠ The drawing(s) filed on <u>6/29/2004</u> is/are:	a)⊠ accepted or b)□ objecte	ed to by the Examiner.				
Applicant may not request that any objection	to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the	correction is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by	the Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E	uments have been received. uments have been received in a e priority documents have been	Application No				
* See the attached detailed Office action for	a list of the certified copies no	t received.				
		,				
Attachment(s)		0 1070 1165				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9-9) 		Summary (PTO-413) (s)/Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/ Paper No(s)/Mail Date <u>02</u> .		Informal Patent Application (PTO-152)				

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DETAILED ACTION

1. Claims 1-29 are presented for examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-29 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over **Schelvis** U.S. Patent No. 5,241,673, in view of **Hagersten et al.** (Hereinafter "Hagersten") US Patent No. 5,829,034.

As to claim 1, Schelvis teaches the invention substantially as claimed, comprising:

detaching the identified object from the namespace while maintaining the identified ... object in a location in memory [inaccessible data occupying memory space is removed from memory to thereby free previously accupied memory space, ab];

informing an operating system component that the device associated with the identified object is invalid [col. 12, lines 36-41]; and

in response to a notification that the associated device is no longer being used, causing the identified object to be freed from the location in memory [ab; col. 12, lines 36-41].

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Schelvis does not explicitly teach receiving a notification that an unload operation is starting, the unload notification identifying the object to be unloaded from the namespace. However, since Schelvis teaches reclaiming memory space occupied by dead objects, the feature of a notification that an unload operation is starting, the unload notification identifying the object to be unloaded from the namespace is inherent in the system in order to remove information from memory which has been determined to be inaccessible [see ab; col. 11, lines 1-2].

However, Schelvis does not explicitly teach identifying a device associated with the identified object as invalid. Hagersten teaches identifying a device associated with the identified object as invalid [col. 6, lines 33-42; col. 32, lines 1-23].

Therefore, it would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention to add this feature of Hagersten to the system of Schelvis in order to increase the efficiency of contributing to speedy operation.

As to claim 2, Schelvis and Hagersten teach the invention substantially as claimed. Hagersten further teaches prior to detaching the identified object, suspending power management and configuration management activity to put the namespace in a steady state; and after the identified object is detached from the namespace, resuming power management and configuration management activity [col. 9, lines 30-65].

As to claim 3, Schelvis and Hagersten teach the invention substantially as claimed.

Schelvis further teaches prior to detaching the identified object, locking access to the namespace;

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and after the identified object is detached from the namespace, unlocking access to the namespace [col. 14, lines 63-67].

As to claim 4, Schelvis and Hagersten teach the invention substantially as claimed. Schelvis further teaches that unload notification indicates that a hardware device associated with the object is being made unavailable [col. 14, lines 63-67].

As to claim 5, Schelvis and Hagersten teach the invention substantially as claimed. Schelvis further teaches that the unload notification comprises means for indicating that the hardware device is being made unavailable [ab].

As to claim 6, Schelvis and Hagersten teach the invention substantially as claimed, with exception that the hardware device is being made unavailable comprises an interrupt. However, this feature is inherent in the system in order to made the hardware device unavailable.

As to claim 7, Schelvis and Hagersten teach the invention substantially as claimed.

Schelvis further teaches that the interrupt comprises a general purpose event signal [col. 29, lines 67 to col. 30, lines 11].

As to claim 8, Schelvis and Hagersten teach the invention substantially as claimed. Schelvis further teaches that the general purpose event signal is generated by the device associated with the identified object [col. 29, lines 67 to col. 30, lines 12].

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As to claim 9, Schelvis and Hagersten teach the invention substantially as claimed.

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Hagersten further teaches severing a link between the identified object and the namespace and

flagging another object in the namespace to indicate that the identified object has been served

[col. 10, lines 6-27].

As to claim 10, Schelvis and Hagersten teach the invention substantially as claimed.

Schelvis further teaches maintaining a pointer to the location in memory in a device extension

associated with the device [col. 4, lines 9-33].

As to claims 11 and 12, Schelvis and Hagersten teach the invention substantially as

claimed. Schelvis further teaches that a reference count associated with the identified object has

passed a predetermined threshold [title].

As to claim 12, Schelvis and Hagersten teach the invention substantially as claimed.

Schelvis further teaches that the predetermined threshold indicates that objects no longer refer to

the device [col. 12, lines 25-35; col. 35, lines 28-66].

As to claims 13-24, all limitations of these claims have been addressed in the analysis of

claims 1-12 above, and these claims are rejected on that basis.

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As to claim 25-29, Schelvis and Hagersten teach the invention substantially as claimed as specified in claims 1-12 above. Schelvis further teaches AML interpreter [col. 4, lines 55 to col. 5, lines 4; col. 5, lines 46-67] and ACPI driver [inherent in the system].

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy Pardo, whose telephone number is (703) 305-1091. The examiner can normally be reached Monday through Thursday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici, can be reached at (703) 305-3830.

The fax phone number for the organization where this application or proceeding is assigned are as follows: (703) 872-9306 (Official Communication)

and/or:

(703) 746-5616 (Use this Fax#, only after approval by Examiner, for "INFORMAL" or "Draft" communication. Examiner may request that a formal/amendment be faxed directly to then on occasions).

Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

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Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-5359, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Thuy Pardo

February 07, 2004